

29¢

NOTE BOOK

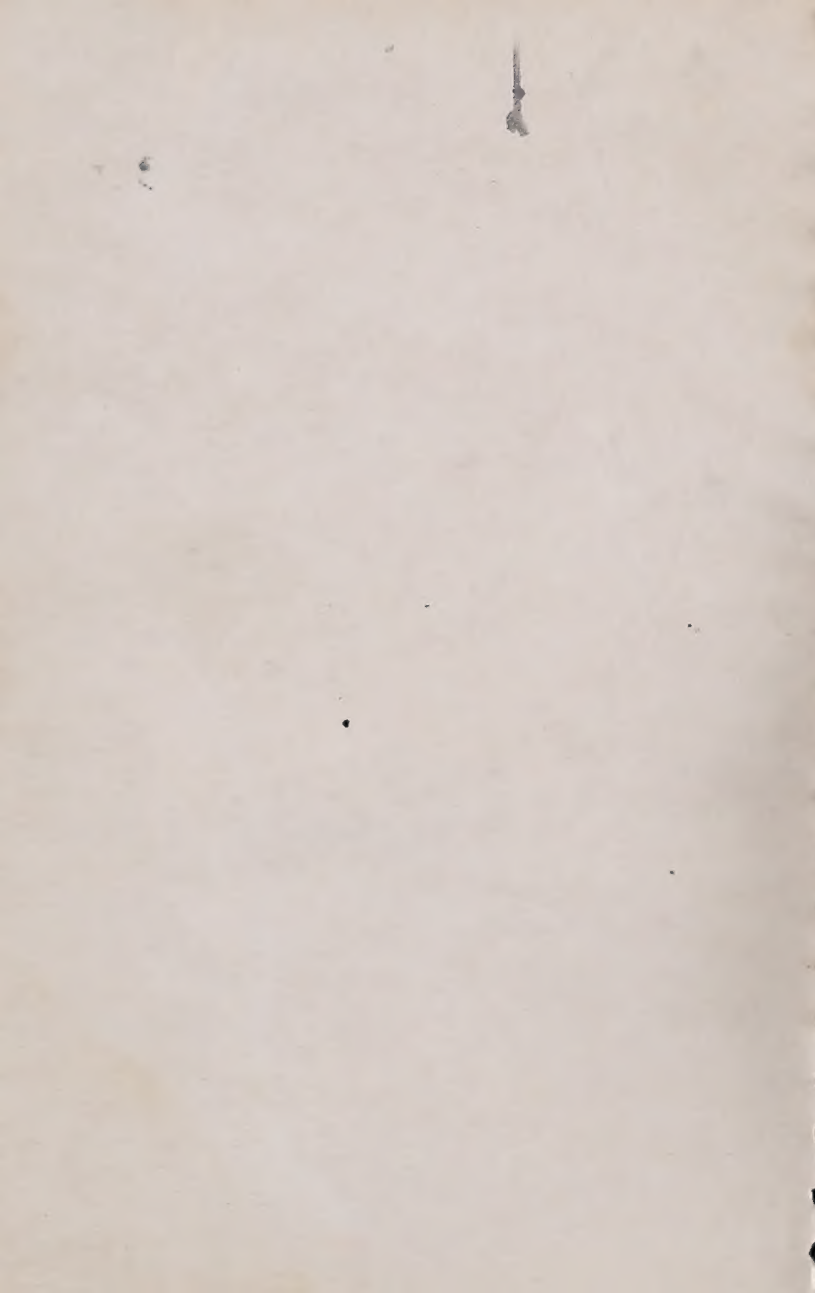


10943 - 11165

#595

75 SHEETS

NO. 2017
NO. 2018



Shenandoah Co. Va.

May 19 - 68185.9

1200 feet elevation - 350 m.

shale slopes in wooded
area - mixed pine-deciduous
forest - overlooking Shenandoah River,
5.5 km. se of Woodstock

Middle of Woodstock

68189.4

10943 - *Senecio abrotanifolius*
rays mostly 8

10944 - *Peristemon*
fls rather pale lavender

10945 - "hybrid *Antennaria*"

10946 - *Antennaria neglecta*

10947 - " *plantaginifolia*

U. 595

20 May, 1973. Page Co., Va. elev. 400m.
near Katherine's Furnace, at SE base
of Massanutten at base of SE side of
Massanutten Mt., ca 8 km. air line N of
Shepherdstown. Mixed pine-hardwood
forest.

10948 - Plusteman - Fls.
lavender; on both shale & lime.

10949 - Knizia very
shale

10950 - *Senecio autumnus*
shale, lapping into lime

10951 - *Artemisia*, to 3 or even 4m.
fls. white, 850m.
A. melanocarpa - mixed woods,
red. Pine. Limestone

21 May 1973 - elev 2500
850 m. 68374.6 -

10952 *Polypodium pauciflorum* -
fl. rich pink-purple
hemlock-hardwood forest
east slope, W. Va.

Pocahontas Co. - between
Durbin + Cass. - between
Back Allegheny Mt. + Greenbrier River
10953 - - same - wet places -

Anemone lanifolia -
sep. 5, white

10954 21 May 1973 Elevation 2450
68417.2

Moist low ground along
small stream in hemlock
hardwood forest on shale
substrate. W. Va. Pocahontas Co.
Elev. 2400 ft - 700 m.
Phlox rotundifolia fls. pink
purple

4
ca 8 miles SW of Huntersville
419.0 at Park Campground

22 May, 1973 - Bath Co., Va.
shalebarrens with pine &
mixed hardwood just east
of Milboro Springs.

1600 feet \approx 500 meters

10955 - *Hieracium trailii*

536.5

10956 - *Senecio antennariifolius*
var 8.

10957 - *Praba ramosissima*
fls. white

10958 Elevation 1600

mileage 68538.3

1 1/2 km. ~~SW of~~ Milboro
spgs. elev. 500 m.

Clematis viticantis Steele

Fls ~~po~~ blue toward the
base, achroous distally,
± mudding.

23 May, 1972.

300 m. shaly ~~basal~~
~~gast~~ mud pits -
handrued

10959 - *Senecio* int.

688.0 spots. Shenandoah
County

Dunferron
Highway 55- 93.1

(Shortly S.W. of Elizabeth Furnace
- 98.3 at Strasburg)

anthocyanin diverges from

flav. synth leads by various
steps to chalcones -
thence branch in 3 directions
only. last one
probably 2 steps in
the production of
anthocyanin appear to be
missing.

if it is flavonols
that occur with betalains,
then only one step is missing
~~from~~ for anthocyanins.

10943 - 19 May, 1973

Shenandoah County, Va.

Shale barren overlooking North
Fork of Shenandoah River, 5.5 km
southeast of Woodstock. Mixed
pine-deciduous forest. Elev.
350 m. Heads yellow. Rays
mostly 8.

Senecio obovatus Muhl. ✓

Senecio obovatus (2) ✓

10944 - 19 May, 1973
Same place as 10943, Flowers
rather pale lavender

Penstemon canescens (Britt.) Britt.

Penstemon ② ✓

10945 - 19 May, 1973. Same
place as 10944. A very few
plants growing with many
plants of #10946, *A. neglecta*
var. *argillicola*
and 10947, *A. plantaginifolia*
var. *plantaginifolia*.
~~and possibly intermediates~~
~~between them~~

Antennaria: possible hybrid of
A. plantaginifolia var. *plantaginifolia*
and *A. neglecta* var. *argillicola*.

Antennaria ①

10946 - 19 May, 1973.

Same place as 10943.

Growing with # 10947,

A. plantaginifolia, and
10945, a possible intermediate.

Antennaria neglecta Greene
var. *argillicola* (Stebbins) Cronq.

Antennaria neglecta. ③

10947-19 May, 1973.

Same place as 10943.

Growing with # 10946,
A. neglecta var. *argillicola*,
, and 10945,
a possible intermediate.

Antennaria plantaginifolia (L.)

Richards

Var. *plantaginifolia*

✓

Antennaria plantaginifolia (3)

10948 - 20 May, 1973.

Page Co., Va. Onloch shale &
at base of southeast flank of
Massanutten Mts., near
Katherine's Furnace, ca
8 km. airline north of
Shenandoah. Mixed pine-
hardwood forest. Elev. 400m.
Flowers lavender.

Penstemon canescens (Britt.) Britt.

Penstemon (2)

10949-20 May, 1973. Page Co.,
Va. Shale barrens at base of
southeast side of Massanutten
Mts., near Katherine's Furnace,
ca 8 km. airline north of
Shenandoah. Mixed pine-hardwood
forest. Elev. 400 m. Flowers
orange-yellow.

Krigia virginica (L.) Willd.

Krigia virginica ① ✓

10950 - 20 May, 1973 Page Co.,
Va. - Shale barren, and lapping
over onto limestone - - - I
as in 10949.

Heads yellow. Rays mostly 8.

Senecio antennariifolius Britt.

Senecio antennariifolius ③

10951- 20 May, 1973. Page Co.,
Va. Near crest of Massanutten
Mt., ca 7 km airline south
of New Market. On limestone
substrate in mixed pine-hard-
wood woods. Elev. ca. 850 m.
Shrub up to 3 or even 4 m. tall.
Flowers white

Aronia melanocarpa (Michx.)
✓ Ell.

Aronia melanocarpa (2)

10952 - 21 May, 1973
Pocahontas Co., West Va.
Hemlock-hardwood forest on
east slope between Back
Allegheny Mt. and Greenbrier
River, between Durbin and Cass.
Elev. ca. 850 m. Flowers
rich pink-purple.

Polygala paucifolia Willd.

Polygala paucifolia ①

10953 - 21 May, 1973.

Pocahontas Co., West Va.

Wet places near rivulet
in hemlock-hardwood forest
..... etc. as in 10952. Sepals 5,
white.

Anemone lancifolia Pursh

Anemone lancifolia (2)

10954 - 21 May, 1973

Pasquotank Co., West Va.

Moist low ground along
small stream in
hemlock-hardwood forest on
shale substrate, ca 13 km.
southwest of Huntersville.
Elev. ca 700 m. Flowers
pink-purple.

Phlox stolonifera Sims

Phlox stolonifera (2)

10955 22 May, 1973.

Bath Co., Virginia

Under mixed pine-hardwood
woods on shale barrens 1 km.

east of Michener Springs.

Elev. ca. 500 m.

Heads yellow.

Hieracium traillii Greene

Hieracium traillii (4) ✓

10956 - 22 May, 1973.

Bath Co., Va. Same place
as 10955.

Heads yellow. Rays mostly
ca 8, sometimes 13.

Senecio antennariifolius Britton

Senecio antennariifolius (2)

10957. 22 May, 1973.
Bath Co., Va. Lamplacra 10955.
Flowers white

Draba ramosissima Desv.

Draba ramosissima (3) ✓

10958- 22 May, 1973;

Bath Co., Va. In mixed
pine-hardwood woods on
shale barren $1\frac{1}{2}$ km. south of
Millboro Springs. Elev. ca.
500 m. Flowers numerous, low
nodding, blue toward the
base, ochroleucous distally.

Clematis viticaulis Steck

Clematis ③

V

10959. 23 May, 1973

Shenandoah Co., Va.

Shale barren with mixed pine
and hardwood, ca 8 km. airline
south of Strasburg, shortly
southwest of Elizabeth

Furnace. ~~40~~ Elev. ca. 300
m. Heads yellow. Rays
mostly ca. 8.

Senecio antennariifolius

Britton

Senecio antennariifolius (3)

10960 - 8 June, 1973.

Clinton Co., N.Y.

Thin soil on flat-lying
limestone outcrops in
mixed deciduous-coniferous
woods area, ca 6 km
northwest of Sciota. Elev.
100 m. Sparingly branched
shrubs 2-5 dm tall. Flowers
white. Plants reaching 2 m in
height in wetter, more favored
~~localities~~ sites nearby.

Aronia melanocarpa (Michx.)
Ell.

Aronia melanocarpa ②

10961- 8 June, 1973.

~~Clinton~~ Clinton Co., N.Y.

Edges of woods in mixed
deciduous-coniferous forest
area, on limestone substrate,
ca 6 km northwest of
Sciota. Elev. 100 m.

Growing with #10963,
A. neglecta var. *attenuata*
(Fernald) Cronq., and #10962,
the less common apparent
intermediate.

Antennaria neglecta Greene
var. *neglecta*

✓

Antennaria neglecta var. *neglecta* (4)

10962. 8 Jan. 1973.

Same place as 10961.

Growing with 10961, *A. neglecta* Greene var. *neglecta*, and 10963, *A. neglecta* var. *attenuata* (Fern.) Cronq., and combining their characters in different ways, but less common.

Antennaria neglecta Greene
intermediate between
var. *neglecta* and var.
attenuata (Fern.) Cronq.

A. neglecta *intermedia* (D) ✓

10963. 8 June 1973. Same place
as 10961. Growing with # 10961,
A. neglecta Greene var. *neglecta*,
and 10962, the less common
apparent intermediate.

Antennaria neglecta Greene
var. *attenuata* (Fern.) Cronq.

Antennaria neglecta var. *attenuata* (4)

11 June, 1973- Washington Co.,
Me. #10964

In mixed spruce-fir-hickory
woods along the east shore of
Whiting Bay, Crow's Neck,
Town of Prescott.
Shrub ca 2 m tall.

Amelanchier bartramiana
(Tausch) Roemer

✓

Amelanchier bartramiana (3)

10965 - 10 June, 1973.
Washington Co., Me.

In mixed spruce-fir-birch woods along the east shore of Whiting Bay, Crow's Neck, Town of Trescott.

Plants without creeping rhizomes, scarcely tufted, producing only 1-3 culms together.

Poa saltuensis Fern. + Wieg.

Poa (3) ✓

~~10966~~ - 9 May, 1974.
Virginia, Page Co. Mixed hardwood
forest in canyon above
Catherine Furnace, east
side of Massanutten Mt.

Petals 5, white or partly pink,

111 73

Anemone lancifolia Pursh

✓

Anemone lancifolia (3)

~~10977~~ 10 May, 1974,
Virginia, Rockingham-Greene
County line. Abundant in
mixed second-growth deciduous
forest along the Appalachian
Trail, top of the Blue Ridge,
ca 1 km. southwest of
Spotswood Gap and 10 km.
southeast of Elkton.
Elev. ca. 800 m.

Plants abundant. Leaves
glaucous beneath. Flowers
yellow.

11174

Corydalis flavula (Raf.) DC.

Corydalis (3)

10978 - 19 May, 1974,

Clinton Co., New York.

In second growth mixed
hemlock-hardwood and boreal
forest in thin soil on
flat-lying limestone, ca
4 km northwest of Sciota
and 35 km northwest of
Plattsburg. ~~El.~~ Elev. ca 100 m.

Shrubs ca 2 m tall with
2 - 4 (5) flowers in an inflorescence. Petals white.

~~For~~ Three other spp.

(*A. laevis*, *A. canadensis*, *A. spicata*)
and some hybrids in the vicinity.

Ovary. Top tomentose

11125

Amelanchier bartramiana (Tausch)
Roemer

Amelanchier bartramiana (3)

10979-20 May, 1974.

Clinton Co., New York.

Same place as 10978.

Arborescent, crooked-trunked
shrubs to 6 m. tall and 1 dm thick.
Leaves with a prominent
coppery-red cast. Flowers 5-10
in loosely erect racemes. Petals
white. Ovary top glabrous.

Three other spp. (*A. bartramiana*,
A. canadensis, *A. speciosa*)
and some hybrids in the vicinity

11125

✓

Amelanchier laevis Wieg.

Amelanchier laevis (3)

10980 - 20 May, 1974.

~~Amelanchier~~ Clinton Co., NY.

11125
Same place as 10978

Shrubs 3-4m tall. Flowers
4-8 in loosely erect racemes,
with the raceme continuing
in the direction of the axis of
the twig. Petals white. Ovary
glabrous with summit.
Three other spp. (*A. latifolia*,
A. laevis, *A. spicata*)
and some hybrids in the vicinity.

11127

Amelanchier canadensis (L.) Medic.

✓

Amelanchier canadensis (3)

10981 = 20 May, 1974

Clynton Co., NY.

Same place as 10978 11125

Shrubs 1.5-2 m tall. Flowers
(4) 5-10 in loosely erect to
spreading or distally droop-
ing racemes, the axis of the
raceme appearing coarse, but
actually soft and weak.
Petals white. Ovary tomentose
on the seemin.

11128

Amelanchier spicata (Lam.) K. Koch

Amelanchier spicata (3)

10982-24 ~~April~~ ^{June} 1974.

Chihuahua, Mexico. In stony
volcanic soil on gentle slopes
of dry, grassy valley with
scattered mesquite. ca ~~12~~ 135
km. north of Chihuahua and
22 km. south of El Surco
Elev. ca 1200 m.

Stems ~~are~~ somewhat
succulent, arising singly
or two together from a
deep-slated coriaceous storage
root ca 1 dm. thick. Flowers
unisexual, most from staminate.
Petals 5, light pink. Stamens
8, the 5 outer ones shorter than
the 3 inner. Ovary trilocular,
with septa, bilobed style.
11/74

✓✓

Jatropha macrohyza Benth.

Qualea ?

~~10983~~ 30 June, 1979. Mexico, Mexico
In moist woods on south slope
of volcanic ridge south of
Mexico City, ca 20 km. north-
west of Cuautla. Elev. ca 1300
m.

Stems 1-several from a short,
stout, caarsely filicoid, rhizome.
Leaves all
coriaceous, not glaucous. Heads
yellow. ~~Leaves~~ ~~bracts~~ ~~ca. 13~~. Rays mostly 3,
ca 2.5-3.5 cm long.

11133

2775

Pinus

(10)

17504 - 1 July, 1974
Desmanthus ^{calcaratus} ~~miniatus~~ On ~~cliffs~~

cliffs along the Pan-American
highway ca. 32 km south-
east of Huajuapam de Leon,
in open scrub vegetation,
with 'cacti', acacia tree
Ipomoea, Thevetia peruviana,
etc. Elev. ca. 2300m.

Shrubs up to ca 1 or 1.5 m tall,
largely confined to the high-
way cliff-cut, where not
subject to grazing. Flowers
pink.

11131

Stevia lucida Lag.

(KO'75)

Stevia (5)

10935 - 1 July 1974. Cayaca,
Mexico. Same place as 10934.
~~Shrub~~ Shrub 1.5-2 m. tall, seen
only on the highway cliff cut,
where not subject to grazing.
Heads yellow. Rays 5.

11132

Coreopsis mutica DC.

EB '75

✓

Bidens mutica (L.)

12756 1 July 1948

Oaxaca, Mexico.

Open, volcanic slopes in
semi-desert shrubby vegetation
~~nearby~~ about 32 km southeast
of Huajapam de Leon, near the
29 km post on the Pan-American
highway. Slender, freely branching
shrubs scarcely 1 m. tall.
Heads yellow, with mostly 8
rays. Elev. ca. 2500 m.

11133

Perymenium menderzii DC. var. menderzii

(KB 75)

✓

Perymenium (7)

10987-2 July, 1974.

Agave, Mexico. Lower deciduous
subtropical forest, ~~along~~
verging to thorn scrub,
ca 70 km southeast of
Oaxaca and 10 km northwest
of Totolapan.

Elev. ca 1200 m.

Slender, many-stemmed
soft shrub 2.5-3 m. tall.
Heads yellow, with ca (6) 13
rays.

11144

Perymenium mendezii DC. var. verbesinoides
(DC.) Fay >> var. mendezii

(K & J)

raying forward

6446.1

Perymenium (8)

~~11145~~ - July 2, 1974.

Oaxaca, Mexico. Indistinct sites along the Pan-American highway in an open, subtropical deciduous forest region, ranging between scrub, about 70 km south east of Oaxaca and 10 km ~~south~~ northwest of Totoposte.

Elev. ca. 1500 m.

Plants around the houses and major part of understory shrubs.

11145

Florestina latifolia (DC.) Rydberg

(KB 75)

✓

Totoposte

aff. Florestina 50

~~1999~~ 3 July, 1994

Oaxaca, Mexico. In open pine oak
woodland in limestone region
along the Pan-American
highway ca. 107 km. north
of Tehuantepec and 140 km
southeast of Oaxaca.

Elevation ca. 1200 m.

Plants sub-shrubby but
evidently short-lived.
Leaves variable in degree of
pubescence. Ray white,
mostly 5; disk reddish.

11146

Bidens pilosa L. ✓

11146

Bidens (3)

~~10770~~ 4 July, 1934.
Puebla, Mexico.

In open thicket, scrub
vegetation in Colima
state. 1.5 km ~~south~~ ^{north} of
San Antonio Tepic. ~~14~~ km and
10 km ~~south~~ ^{north} of Tepic.
10

Shrub to 1600 m.
Slender, bearing many-stemmed
shrubs 1.5-2.5 m. tall. Heads
yellow, with (6-15) rays
(occasionally) in long.

11147

Perymenium mendocin DC. var. angustifolium
(Brandeg.) Fay
10770

Perymenium (L.)

~~10991~~ 5 July, 1974 Mexico
Medica. In moist, grassy soil
between cornfield and road,
ca 32 km northwest of
Toluca and 64 km east of
Zitacuaro.
Elev. ca. 2400 m.

Bracts green. Calyx
distally bright
orange-red. Petals light
yellow with bright red
margins.

11185

32 km
Castilleja (3)

~~1995~~ - 6 July 1947

Michoacán, Mexico

A single shrub to 25 m
tall along stream banks
in the mountains
and open field territory
to the south of
Ciudad Hidalgo.

Elev. ca. 1900 m.

Leaves yellow, with
marked veins. Rays pistillate
and apparently fertile. Achenes
flattened, developing a wing
along one side that is continuous
with the pappus. Pappus of
2 firm awns interrupting a
short, feebly bristled base.

11149

Lasianthaea ceanothifolia

(Willd.) K. Becker

var. *ceanothifolia*

Lasianthaea (18)

~~10973~~ 6 July, 1974.

Disturbed soil at edge of
pine-oak forest ca 13 km
west of Tzucucru, Quintana
Roo, Mexico.

Fls. ca 2000 m.

Plants taprooted, annual to
short-lived perennial.

Rays ~~25-34~~ white,
mostly 15-34, often 21.

Disk yellow. Growing with
#10974

11150

Astranthium condimentum De Jong
K.B. 75

411.7

Achillea 10.

~~10990~~ 6 July, 1976.
Machiasse, Madia. Same
place as 10992.
Plants slender, hirsutulous
perennials. Rays white to
light pink, very numerous
(ca. 250).
Growing with # 10992.

11151

Erigeron affinis DC.

K. L. S.

Accepted 7 ⑨

10995 → 7 July, 1970, Jalisco,
Mexico. In thorn scrub

overlooking the south side of
Lake Chapala, ca ~~280~~ 80 km.

by road south-southwest of
Guadalupe. Elev. ca 1550 m.

Slender, branching shrubs 1.5-3 m.
tall. Herbage yellow. Rays (5) 6-8,
pistillate and fertile. Pappus of
several coarse bristles the
marginal ones the longest, on
a ~~small~~ somewhat contractile
aricle at the summit of the
achene, plus one or two
more or less developed ones
continuous with the margins
of the achene.

and 7-8 km south of San ~~San~~ Luis
Soyatlan

11/15/2 ✓

Perymenium menderii DC. var. *verbesinoides*
(DC.) Fay >> var. *menderii*
H.

Perymenium (10)

10996 7 July 1978

Jalisco, Jalisco, Mexico

Same place as 10995

Sparingly branched shrub

ca 2 m. tall. Flowers

Heads yellow, with mostly

8 rays. Rays pinnate with

fertile, pappus

acorns with brown with

2 marginal ones.

Shrub ca 190 cm.

11153

Wedelia acapulcensis HBK.

det. K. Becker

Viguiera (7)

05465

10997 - 8 July, 1974.

Jalisco Mexico. In oak-juniper
woodland along the road from
Guadalupe to Zacatecas, ca 30-40
km. north of Guadalupe.

Stems clustered (~~or sometimes~~)
(or sometimes solitary) from a
compact, fibrous-rooted base.
Heads yellow, rays 6-7, neutral,
often irregularly spaced.

Achenes compressed, narrowly
marginated when submature,
the margin prolonged into a
firm tooth on each side, otherwise
epappus. Corolla tube con-
spicuously spreading, hairy.

11154

Verbesina parviflora (HBK.) Blake
100 '75

11154

(11)

✓

Sept 9, 1911.
June 20, Mexico. Occurs in
volcanic hills overlooking the
Rio Chico from the north
side, in open pine-ash-
-tree *Opuntia* country.
Sium *glaberrimum*
ca 33 km. west of Durango,
along the road to Mazatlan.
Elev. ca. 2200 m.

Stems clustered on a thickened,
woody, coarsely fibrous root
base having the nature of a
caudex. Heads yellow. Rays 6-12,
often irregularly set, pistillate
and fertile, with triangular
lobes. Disk achene compressed-
quadrate; pappus of 2 fairly
long, fragile marginal awns
and several much shorter inter-
mediate ones.

Perymenium bupththalmoides DC. var. *tenellum*
(A. Gray) McVaugh
7 121575 ✓

~~10999~~ 9 July, 1978 Durango,
Mexico. Same place as 10993.
~~Shrub~~ Slender shrubs or
subshrubs up to ca 1 m. tall.
Heads yellow.

Pappus of several fragile awns,
the 2 margins longer than
the others.

11157

Perymenium mendezi DC. var. mendezi

(137)

10124.7

Perymenium

7

4000 - 9 July, 1974.

Arroyo, Mexico

In pine woods on rhyolitic
substrate along the crest of
the Sierra Madre Occidental,
near the western edge, ca
127 km. west of Durango
and 19 km. northeast of
La Ciudad.

Alt. ca. 2700 m.

Base of leaves glaucous beneath.
Petioles yellow. Rayb 13,
11/58

11/58

Senecio toluccanus DC.

10071

Senecio to (10)

1900-9 July, 1934

~~Sierra Madre~~ México. Durango

Steep, rocky slopes of
ravine in oak-pine
forest region on the west
slope of the Sierra Madre
Occidental, near
Revolcadero (188 km west
on Durango-Mazatlan
highway) and ca 125 km
by road east-northeast of
Mazatlan

Elev. ca 2000 m. Shrub ca 1.5
m. tall, sometimes propped
down to only ca 3 dm and then
largely herbaceous. Rays 12-14,
yellow with a small brown
spot at the base

Viguiera latibracteata (Hemsl.) Blake
(K. S. 15)

Viguiera

(11)

~~14005~~ 13 July, Mono Co.,
Calif.

In rather fine loose, rocky, calcareous
talus near timberline (Pinus
flexilis) at the head of
Lakeside Canyon, Inyo Nat.
Mts. Elev. ca. 10,000 ft.

Plants forming loose, open
mats in the gravelly talus.
Corolla 4 lobed, dirty
achroous.

11142

Galium multiflorum Kell. sens. lat.
(*G. hypotrichum* A. Gray)

Galium multiflorum

(6)

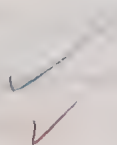
~~11/6/74~~ 13 July 1974.

Sample 11/6/74

Flowers purple.

11/6/74

Arabis platysperma A. Gray



Perry?

①

1116 2- 11 August, 1974

Clinton Co., New York

Clearings in second-growth
mixed hemlock-hardwood and
northern coniferous forest,
on a limestone substrate,
ca. 4 km. northwest of Sciota
and 35 km. northwest of
Plattsburg. Elev. ca. 100 m.
Stem solitary brownish
rhizome. Heads yellow

Hieracium scabrum Michx.



Hieracium scabrum (1)

11163. 11 August, 1974

Clinton Co., New York.

Openings and old unused roads
in second growth mixed
hemlock-hardwood and northern
coniferous forest, ca 4 km.
northwest of Leota and 35 km
northwest of Plattsburg.

Elev. ca. 100 m.

On a limestone substrate

Stem solitary. Lips with a
broad, ill-defined central
green stripe, the flaments
otherwise white. Bracts
1 or 2.

Spiranthes gracilis (Big.) Beck.

Spiranthes gracilis ①


11164 - 11 August, 1974
Clinton Co., New York. Around
the edge of a pond-swamp in
second growth mixed
hemlock-hardwood and
northern coniferous forest,
on a limestone substrate
ca 4 km. northwest of Sciota
and 35 km. northwest of
Plattsburg, Elev. ca. 100 m.
Shrubs 1.5-3 m. tall. Leaves
pale beneath. Fruit red with
a slight purplish cast; juicy,
not unpalatable, with
mostly 4 stones.

✓
Hemopenthes mucronatus (L.) Trelease

✓
Hemopenthes mucronatus (L.)

11165 11 August, 1974
Clinton Co., New York.
Edge of swamp in second
growth mixed hemlock-hard-
wood and northern coniferous
forest, on limestone substrate
ca 4 km. northwest of
Sciota and 35 km. northwest
of Plattsburg. Elev. ca. 100 m.
Shrub 5-15 dm. tall. Leaves
somewhat pale beneath.
Flowers white or faintly
pinkish.

Spiraea latifolia (Ait.) Borkh.



Spiraea (2)

67820 - W.P.

68197 - Woodstock-s. Edinburg

68335 - Monterey, Ca.

68381.2 Cass

68475. - WS Sp55

68631.6 - Harrisonburg

69067.7 W.P.

11166 - 11 August, 1974. Clinton Co.,
N.Y. In open second-growth
mixed hemlock-hardwood and
northern coniferous forest, on a
limestone substrate, ca 4 km.
northwest of Sciota and 35 km.
northwest of Plattsburg. Elev.
ca 100 m. Heads yellow.

Hieracium canadense Michx.
var. *canadense*.

Hieracium c.

(3)

Tolls-

Henry Hudson 50-

Return

Pa. Pike 2.65

N. J. Pike 1.65

Bridge 1.00

H. Hudson 50-

MADE IN JAPAN